

## A B S T R A C T

The length (L) of a slot (26) increases monotonously from the central portion (A) of an antenna surface (28) in the radial direction, and reaches the maximal value at the first intermediate portion (C).

- 5 The maximal value is maintained from the first intermediate portion (C) until the peripheral portion (B). When compared to a case wherein the length of the slot is increased monotonously from the central portion of the antenna surface (28) until its peripheral portion,
- 10 the power radiated from a slot antenna can increase. Accordingly, the power which is not radiated from the slot antenna but remains in it decreases, so that the reflected power from the slot antenna decreases.